Additional Problems: Periodic Functions

**Changes in Period & Frequency**

**Some problems include the solution. Please remove before sharing with students.**

1. What is the function of the graph below?



\*\*Solution:

1. What is the function of the graph below?



\*\*Solution:

1. What is the function of the graph below?



\*\*Solution:

1. What is the function of the graph below?



\*\*Solution:

1. What is the equation of the trigonometric function in the graph?



\*\*Solution:

1. What is the equation of the trigonometric function of the graph below?



\*\*Solution:

1. Describe the graph of the function as a transformation of its parent function.
* The graph is a horizontal stretch by a factor of 3.
* The graph is a horizontal compression by a factor of .
* The graph is a vertical stretch by a factor of 2.
* The graph is a vertical compression by a factor of .

\*\*Solution: The graph is a horizontal compression by a factor of .

1. Describe the graph of the function as a transformation of its parent function.
* The graph is a horizontal stretch by a factor of 4.
* The graph is a horizontal compression by a factor of .
* The graph is a vertical stretch by a factor of 4.
* The graph is a vertical compression by a factor of .

\*\*Solution: The graph is a horizontal compression by a factor of .

1. Which is an equation of the sine function that has a period of ?

\*\*Solution:

1. Which is an equation of the tangent function that has a period of ?

\*\*Solution: